

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number  
WO 2005/063665 A1

(51) International Patent Classification<sup>7</sup>: C07C 45/00, A61K 31/12

(74) Agents: GAGALA, Bruce et al.; Leydig, Voit & Mayer, LTD, Two Prudential Plaza, 180 North Stetson Avenue, Suite 4900, Chicago, Illinois 60601 (US).

(21) International Application Number:  
PCT/US2004/043979

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date:  
23 December 2004 (23.12.2004)

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(25) Filing Language:  
English

Published:

- with international search report
- with amended claims

(26) Publication Language:  
English

Date of publication of the amended claims: 1 September 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(30) Priority Data:  
60/531,954 23 December 2003 (23.12.2003) US

(71) Applicant (for all designated States except US): AMERICAN BIOSCIENCE, INC [US/US]; 2730 Wilshire Blvd., Suite 110, Santa Monica, California 90403 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): TAO, Chunlin [US/US]; 310 North Crescent Drive, #204, Beverly Hills, California 90210 (US). YU, ChengZhi [US/US]; 1550 Armacost Avenue, #102, Los Angeles, CA 90025 (US). DESAI, Neil P. [US/US]; 2730 Wilshire Blvd., Suite 110, Santa Monica, California 90403 (US). TRIEU, Vuong [US/US]; 3965 North Ceanothus Place, #H, Calabasas, California 91302 (US).



WO 2005/063665 A1

(54) Title: PROPOFOL ANALOGS, PROCESS FOR THEIR PREPARATION, AND METHODS OF USE

(57) Abstract: The invention provides para substituted dialkylphenol derivatives of propofol. The invention further provides pharmaceutical compositions comprising such analogs, methods for preparing such analogs, and methods of using such analogs to induce general anesthesia, sedation, and/or hypnotic or sleep effects in a patient.